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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/628,443	07/29/2003	Hiroaki Doi	056203.52639US	5303
23911 75	90 07/19/2006		EXAMINER	
CROWELL & MORING LLP			WILLIAMS, AL	LEXANDER O
INTELLECTUAL PROPERTY GROUP P.O. BOX 14300		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20044-4300		2826		

DATE MAILED: 07/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/628,443	DOI ET AL.			
		Examiner	Art Unit			
		Alexander O. Williams	2826			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time 11 apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>03 Oc</u>	ctober 2005				
		action is non-final.				
,	, 		secution as to the merits is			
	closed in accordance with the practice under E					
Dispositi	ion of Claims					
4)⊠	Claim(s) 1-10 and 12-22 is/are pending in the a	noplication.				
-	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
6)⊠	Claim(s) 1-10 and 12-22 is/are rejected.					
7)						
8)[Claim(s) are subject to restriction and/or	election requirement.				
Applicati	ion Papers					
9)	The specification is objected to by the Examiner		•			
10)	The drawing(s) filed on is/are: a) acce	epted or b) \square objected to by the E	xaminer.			
	Applicant may not request that any objection to the o	frawing(s) be held in abeyance. See	37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correcti					
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority ι	under 35 U.S.C. § 119		•			
	Acknowledgment is made of a claim for foreign ☑ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
	1. Certified copies of the priority documents	have been received.				
	2. Certified copies of the priority documents	have been received in Application	on No			
	3. Copies of the certified copies of the priori		d in this National Stage			
	application from the International Bureau	, , , ,				
* 8	See the attached detailed Office action for a list of	of the certified copies not received	d .			
Attachmen	t(s)					
1) 🛛 Notic	e of References Cited (PTO-892)	4) 🔲 Interview Summary (PTO-413)			
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te			
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>6/15/06</u> .	5) Notice of Informal Pa	atent Application (PTO-152)			
	rademark Office					

Application/Control Number: 10/628,443 Page 2

Art Unit: 2826

Serial Number: 10/628443 Attorney's Docket #: 056203.52639US

Filing Date: 7/29/2003; claimed foreign priority to 2/18/2003

Applicant: Doi et al.

Examiner: Alexander Williams

Applicant's Amendment filed 10/3/05 to the election of species of figures 1-6 (claims 1 to 20), filed 10/18/04, has been acknowledged.

Claim 11 has been cancelled.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 to 4, 9, 10, 12 to 18 and 20 to 22 are rejected under 35 U.S.C. § 102(e) as being anticipated by Kawakami et al. (U.S. Patent Application Publication # 2004/0084756 A1).

1. Kawakami et al. (figures 1 to 65) specifically figures 1 to 4 show an electronic circuit device 1 comprising, an electronic circuit element 6, a substrate 7 including a front surface on which the electronic circuit element is mounted and a reverse surface opposite to the front surface in a thickness direction of the substrate, an electrically conductive terminal member 3a electrically connected to the electronic circuit element, a lead frame 2 extending perpendicular to the thickness direction to face the reverse surface in the thickness direction, and a sealing resin 4 covering at least partially the electronic circuit element, substrate and lead frame while at least a part of the electrically conductive terminal member is prevented from being covered by the sealing resin, wherein in a cross sectional view taken along an imaginary plane passing the substrate and lead frame and extending parallel to the thickness direction, the substrate extends to project outward with respect to an end of the lead frame in a transverse direction perpendicular to the thickness direction while the end of the lead frame is covered by the sealing resin, the lead frame is formed in one-piece, a part of the lead frame in one-piece is prevented from being covered by the sealing resin to protrude from the sealing resin in a protruding direction perpendicular to the thickness and transverse directions, and the imaginary plane extends perpendicular to the protruding direction.

Art Unit: 2826

2. An electronic circuit device according to claim 1, Kawakami et al. show wherein a coefficient of linear expansion of the lead frame in the transverse direction is smaller than a coefficient of linear expansion of the sealing resin (inherit since Applicant's material for the lead frame and sealing resin is the same as the prior art).

- 3. An electronic circuit device according to claim 1, Kawakami et al. show wherein a difference in coefficient of linear expansion in the transverse direction between the substrate and the lead frame is smaller than a difference in coefficient of linear expansion in the transverse direction between the sealing resin and the lead frame.
- 4. An electronic circuit device according to claim 1, Kawakami et al. further comprising a resin adhesive (inherit) through which the lead frame is adhered to the reverse surface (inherit since Applicant's material for the lead frame and sealing resin is the same as the prior art).
- 9. An electronic circuit device according to claim 1, Kawakami et al. show wherein the imaginary plane extends parallel to a longitudinal direction of the at least a part of the electrically conductive terminal member.
- 10. An electronic circuit device according to claim 1, Kawakami et al. show wherein the electronic circuit device comprises a plurality of the electrically conductive terminal members 3 juxtaposed in an electrically conductive terminal member array direction, and the imaginary plane extends perpendicular to the electrically conductive terminal member array direction.
- 12. An electronic circuit device according to claim 1, Kawakami et al. show wherein the lead frame has a surface facing to the reverse surface in the thickness direction and prevented from being covered by the sealing resin to protrude from the sealing resin in the protruding direction.
- 13. An electronic: circuit device according to claim 1, Kawakami et al. show wherein in the cross sectional view, the substrate extends to project outward in the transverse direction with respect to another end of the lead frame opposite to the end of the lead frame in the transverse direction while the another end of the lead frame is covered by the sealing resin.

Art Unit: 2826

15. An electronic circuit device according to claim 13, Kawakami et al. show wherein in the cross sectional view, a width of the lead frame between the another end and the end is not more than 80 % of a width of the substrate.

- 16. An electronic circuit device according to claim 1, Kawakami et al. show wherein the electronic circuit element includes a semiconductor body whose main component is a semiconductor, and as seen in the thickness direction, the semiconductor body and the lead frame overlap with each other.
- 17. An electronic circuit device according to claim 16, Kawakami et al. show wherein the electronic circuit element includes a power transistor.
- 18. An electronic circuit device according to claim 16, Kawakami et al. show wherein as seen in the thickness direction, the whole of the semiconductor body overlaps with the lead frame.
- 19. An electronic circuit device according to claim 1, Kawakami et al. show wherein the lead frame is prevented from being electrically connected to the electronic circuit element.
- 14. Kawakami et al. (figures 1 to 65) specifically figures 1 to 4 show an electronic circuit device 1 comprising, an electronic circuit element 6, a substrate 7 including a front surface on which the electronic circuit element is mounted and a reverse surface opposite to the front surface in a thickness direction of the substrate, an electrically conductive terminal member 3a electrically connected to the electronic circuit element, a lead frame 2,2' extending perpendicular to the thickness direction to face the reverse surface in the thickness direction, and a sealing resin 4 covering at least partially the electronic circuit element, substrate and lead frame while at least a part of the electrically conductive terminal member is prevented from being covered by the sealing resin, wherein in a cross sectional view taken along an imaginary plane passing the substrate and lead frame and extending parallel to the thickness direction, the substrate extends to project outward with respect to an end of the lead frame in a transverse direction perpendicular to the thickness direction while the end of the lead frame is covered by the sealing resin, a part of the lead frame is prevented from being covered by the sealing resin to protrude from the sealing resin in a protruding direction

perpendicular to the thickness and transverse directions, and a width between the another end and the end in the cross sectional view is smaller than a width of the part of the lead frame in the transverse direction (see figure 4, portions of 2,2' where 2k to the other 2k is smaller than the end portions of 2).

21. Kawakami et al. (figures 1 to 65) specifically figures 1 to 4 show an electronic circuit device 1 comprising, an electronic circuit element 6, a substrate 7 including a front surface on which the electronic circuit element is mounted and a reverse surface opposite to the front surface in a thickness direction of the substrate, an electrically conductive terminal member 3a electrically connected to the electronic circuit element, a lead frame 2,2' extending perpendicular to the thickness direction to face the reverse surface in the thickness direction, and a sealing resin 4 covering at least partially the electronic circuit element, substrate and lead frame while at least a part of the electrically conductive terminal member is prevented from being covered by the sealing resin, wherein in a cross sectional view taken along an imaginary plane passing the substrate and lead frame and extending parallel to the thickness direction, the substrate extends to project outward with respect to an end of the lead frame in a transverse direction perpendicular to the thickness direction while the end of the lead frame is covered by the sealing resin, and the lead frame has first and second surfaces opposite to each other in the thickness direction, in which the first surface fronts the reverse surface of the substrate in the thickness direction the second surface is arranged so as to be prevented from fronting the reverse surface of the substrate in the thickness direction, and the second surface is covered by the sealing resin.

22. An electronic circuit according to claim 21, Kawakami et al. show wherein the lead frame has a side surface between the first and second surface, with a corner between the second surface and the side surface, and the corn is covered by the sealing resin.

Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.

Art Unit: 2826

Claims 1 to 4, 9, 10, 1, 12, 13, 15 to 18 and 20 to 22 are rejected under 35 U.S.C. § 102(e) as being anticipated by Jenn et al. (U.S. Patent # 7,061,080 B2).

- 1. Jenn et al. (figures 1 to 7D) specifically figures 2 and 6 show an electronic circuit device 200 comprising, an electronic circuit element 230,220, a substrate 260 including a front surface on which the electronic circuit element is mounted and a reverse surface opposite to the front surface in a thickness direction of the substrate, an electrically conductive terminal member 211 electrically connected to the electronic circuit element, a lead frame 210 extending perpendicular to the thickness direction to face the reverse surface in the thickness direction, and a sealing resin 270 covering at least partially the electronic circuit element, substrate and lead frame while at least a part of the electrically conductive terminal member is prevented from being covered by the sealing resin, wherein in a cross sectional view taken along an imaginary plane passing the substrate and lead frame and extending parallel to the thickness direction, the substrate extends to project outward with respect to an end of the lead frame in a transverse direction perpendicular to the thickness direction while the end of the lead frame is covered by the sealing resin, the lead frame is formed in one-piece, a part of the lead frame in one-piece is prevented from being covered by the sealing resin to protrude from the sealing resin in a protruding direction perpendicular to the thickness and transverse directions, and the imaginary plane extends perpendicular to the protruding direction.
- 2. An electronic circuit device according to claim 1, Jeun et al. show wherein a coefficient of linear expansion of the lead frame in the transverse direction is smaller than a coefficient of linear expansion of the sealing resin (inherit since Applicant's material for the lead frame and sealing resin is the same as the prior art).
- 3. An electronic circuit device according to claim 1, Jeun et al. show wherein a difference in coefficient of linear expansion in the transverse direction between the substrate and the lead frame is smaller than a difference in coefficient of linear expansion in the transverse direction between the sealing resin and the lead frame.
- 4. An electronic circuit device according to claim 1, Jeun et al. further comprising a resin adhesive (inherit) through which the lead frame is adhered to the reverse surface

Art Unit: 2826

(inherit since Applicant's material for the lead frame and sealing resin is the same as the prior art).

- 9. An electronic circuit device according to claim 1, Jeun et al. show wherein the imaginary plane extends parallel to a longitudinal direction of the at least a part of the electrically conductive terminal member.
- 10. An electronic circuit device according to claim 1, Jeun et al. show wherein the electronic circuit device comprises a plurality of the electrically conductive terminal members 3 juxtaposed in an electrically conductive terminal member array direction, and the imaginary plane extends perpendicular to the electrically conductive terminal member array direction.
- 12. An electronic circuit device according to claim 1, Jeun et al. show wherein the lead frame has a surface facing to the reverse surface in the thickness direction and prevented from being covered by the sealing resin to protrude from the sealing resin in the protruding direction.
- 13. An electronic: circuit device according to claim 1, Jeun et al. show wherein in the cross sectional view, the substrate extends to project outward in the transverse direction with respect to another end of the lead frame opposite to the end of the lead frame in the transverse direction while the another end of the lead frame is covered by the sealing resin.
- 15. An electronic circuit device according to claim 13, Jeun et al. show wherein in the cross sectional view, a width of the lead frame between the another end and the end is not more than 80 % of a width of the substrate.
- 16. An electronic circuit device according to claim 1, Jeun et al. show wherein the electronic circuit element includes a semiconductor body whose main component is a semiconductor, and as seen in the thickness direction, the semiconductor body and the lead frame overlap with each other.
- 17. An electronic circuit device according to claim 16, Jeun et al. show wherein the electronic circuit element includes a power transistor.

- 18. An electronic circuit device according to claim 16, Jeun et al. show wherein as seen in the thickness direction, the whole of the semiconductor body overlaps with the lead frame.
- 19. An electronic circuit device according to claim 1, Jeun et al. show wherein the lead frame is prevented from being electrically connected to the electronic circuit element.
- 20. An electronic circuit device according to claim 1, Jeun show wherein the lead frame is metallic, and a main component of the substrate is a ceramic.
- 21. Jenn et al. (figures 1 to 7D) specifically figures 2 and 6 show an electronic circuit device 200 comprising, an electronic circuit element 230,220, a substrate 260 including a front surface on which the electronic circuit element is mounted and a reverse surface opposite to the front surface in a thickness direction of the substrate, an electrically conductive terminal member 211 electrically connected to the electronic circuit element, a lead frame 210 extending perpendicular to the thickness direction to face the reverse surface in the thickness direction, and a sealing resin 270 covering at least partially the electronic circuit element, substrate and lead frame while at least a part of the electrically conductive terminal member is prevented from being covered by the sealing resin, wherein in a cross sectional view taken along an imaginary plane passing the substrate and lead frame and extending parallel to the thickness direction, the substrate extends to project outward with respect to an end of the lead frame in a transverse direction perpendicular to the thickness direction while the end of the lead frame is covered by the sealing resin, and the lead frame has first and second surfaces opposite to each other in the thickness direction, in which the first surface fronts the reverse surface of the substrate in the thickness direction the second surface is arranged so as to be prevented from fronting the reverse surface of the substrate in the thickness direction, and the second surface is covered by the sealing resin.
- 22. An electronic circuit according to claim 21, Jeun et al. show wherein the lead frame has a side surface between the first and second surface, with a corner between the second surface and the side surface, and the corn is covered by the sealing resin.

Claims 1 to 4, 9, 10 and 12 to 22 are rejected under 35 U.S.C. § 102(e) as being anticipated by Kurihara et al. (U.S. Patent Application Publication # 2002/0192488 A1).

Application/Control Number: 10/628,443 Page 10

Art Unit: 2826

1. Kurihara et al. (figures 27A and 27B) show an electronic circuit device 900 comprising, an electronic circuit element 15-18, a substrate 5,10 including a front surface on which the electronic circuit element is mounted and a reverse surface opposite to the front surface in a thickness direction of the substrate, an electrically conductive terminal member 30 electrically connected to the electronic circuit element, a lead frame 2 extending perpendicular to the thickness direction to face the reverse surface in the thickness direction, and a sealing resin 22 covering at least partially the electronic circuit element, substrate and lead frame while at least a part of the electrically conductive terminal member is prevented from being covered by the sealing resin, wherein in a cross sectional view taken along an imaginary plane passing the substrate and lead frame and extending parallel to the thickness direction, the substrate extends to project outward with respect to an end of the lead frame in a transverse direction perpendicular to the thickness direction while the end of the lead frame is covered by the sealing resin, the lead frame is formed in one-piece, a part of the lead frame in one-piece is prevented from being covered by the sealing resin to protrude from the sealing resin in a protruding direction perpendicular to the thickness and transverse directions, and the imaginary plane extends perpendicular to the protruding direction.

- 2. An electronic circuit device according to claim 1, Kurihara et al. show wherein a coefficient of linear expansion of the lead frame in the transverse direction is smaller than a coefficient of linear expansion of the sealing resin (inherit since Applicant's material for the lead frame and sealing resin is the same as the prior art).
- 3. An electronic circuit device according to claim 1, Kurihara et al. show wherein a difference in coefficient of linear expansion in the transverse direction between the substrate and the lead frame is smaller than a difference in coefficient of linear expansion in the transverse direction between the sealing resin and the lead frame.
- 4. An electronic circuit device according to claim 1, Kurihara et al. further comprising a resin adhesive (inherit) through which the lead frame is adhered to the reverse surface (inherit since Applicant's material for the lead frame and sealing resin is the same as the prior art).

Art Unit: 2826

9. An electronic circuit device according to claim 1, Kurihara et al. show wherein the imaginary plane extends parallel to a longitudinal direction of the at least a part of the electrically conductive terminal member.

- 10. An electronic circuit device according to claim 1, Kurihara et al. show wherein the electronic circuit device comprises a plurality of the electrically conductive terminal members 3a juxtaposed in an electrically conductive terminal member array direction, and the imaginary plane extends perpendicular to the electrically conductive terminal member array direction.
- 12. An electronic circuit device according to claim 1, Kurihara et al. show wherein the lead frame has a surface facing to the reverse surface in the thickness direction and prevented from being covered by the sealing resin to protrude from the sealing resin in the protruding direction.
- 13. An electronic: circuit device according to claim 1, Kurihara et al. show wherein in the cross sectional view, the substrate extends to project outward in the transverse direction with respect to another end of the lead frame opposite to the end of the lead frame in the transverse direction while the another end of the lead frame is covered by the sealing resin.
- 15. An electronic circuit device according to claim 13, Kurihara et al. show wherein in the cross sectional view, a width of the lead frame between the another end and the end is not more than 80 % of a width of the substrate.
- 16. An electronic circuit device according to claim 1, Kurihara et al. show wherein the electronic circuit element includes a semiconductor body whose main component is a semiconductor, and as seen in the thickness direction, the semiconductor body and the lead frame overlap with each other.
- 17. An electronic circuit device according to claim 16, Kurihara et al. show wherein the electronic circuit element includes a power transistor.
- 18. An electronic circuit device according to claim 16, Kurihara et al. show wherein as seen in the thickness direction, the whole of the semiconductor body overlaps with the lead frame.

19. An electronic circuit device according to claim 1, Kurihara et al. show wherein the lead frame is prevented from being electrically connected to the electronic circuit element.

- 14. Kurihara et al. (figures 27A and 27B) show an electronic circuit device 900 comprising, an electronic circuit element 15-18, a substrate 5,10 including a front surface on which the electronic circuit element is mounted and a reverse surface opposite to the front surface in a thickness direction of the substrate, an electrically conductive terminal member 30 electrically connected to the electronic circuit element, a lead frame 2 extending perpendicular to the thickness direction to face the reverse surface in the thickness direction, and a sealing resin 22 covering at least partially the electronic circuit element, substrate and lead frame while at least a part of the electrically conductive terminal member is prevented from being covered by the sealing resin, wherein in a cross sectional view taken along an imaginary plane passing the substrate and lead frame and extending parallel to the thickness direction, the substrate extends to project outward with respect to an end of the lead frame in a transverse direction perpendicular to the thickness direction while the end of the lead frame is covered by the sealing resin, a part of the lead frame is prevented from being covered by the sealing resin to protrude from the sealing resin in a protruding direction perpendicular to the thickness and transverse directions, and a width between the another end and the end in the cross sectional view is smaller than a width of the part of the lead frame in the transverse direction (see figure 27A, portions of 2 where get smaller).
- 21. Kurihara et al. (figures 27A and 27B) Kawakami et al. (figures 1 to 65) specifically figures 1 to 4 show an electronic circuit device **900** comprising, an electronic circuit element **15-18**, a substrate **5,10** including a front surface on which the electronic circuit element is mounted and a reverse surface opposite to the front surface in a thickness direction of the substrate, an electrically conductive terminal member **30** electrically connected to the electronic circuit element, a lead frame **2** extending perpendicular to the thickness direction to face the reverse surface in the thickness direction, and a sealing resin **22** covering at least partially the electronic circuit element, substrate and

lead frame while at least a part of the electrically conductive terminal member is prevented from being covered by the sealing resin, wherein in a cross sectional view taken along an imaginary plane passing the substrate and lead frame and extending parallel to the thickness direction, the substrate extends to project outward with respect to an end of the lead frame in a transverse direction perpendicular to the thickness direction while the end of the lead frame is covered by the sealing resin, and the lead frame has first and second surfaces opposite to each other in the thickness direction, in which the first surface fronts the reverse surface of the substrate in the thickness direction the second surface is arranged so as to be prevented from fronting the reverse surface of the substrate in the thickness direction, and the second surface is covered by the sealing resin.

22. An electronic circuit according to claim 21, Kurihara et al. show wherein the lead frame has a side surface between the first and second surface, with a corner between the second surface and the side surface, and the corn is covered by the sealing resin.

Initially, and with respect to claims 5-8, note that a "product by process" claim is directed to the product per se, no matter how actually made, <u>In re Hirao</u>, 190 USPQ 15 at 17 (footnote 3). See also <u>In re Brown</u>, 173 USPQ 685; <u>In re Luck</u>, 177 USPQ 523; <u>In re Wertheim</u>, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); <u>In re Fitzgerald</u>, 205 USPQ 594, 596 (CCPA); <u>In re Marosi et al.</u>, 218 USPQ 289 (CAFC); and most recently, <u>In re Thorpe et al.</u>, 227 USPQ 964 (CAFC, 1985) all of which make it clear that it is the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that, as here, an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that Applicant has burden of proof in such cases as the above case law makes clear.

Claims 5-8 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Kawakami et al. (U.S. Patent Application Publication # 2004/0084756 A1).

The examiner is only interested in finding the claimed final structure I the claimed invention.

As to the grounds of rejection under section 103, see MPEP § 2113.

Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.

Claims 5-8 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Jenn et al. (U.S. Patent # 7,061,080 B2).

The examiner is only interested in finding the claimed final structure I the claimed invention.

As to the grounds of rejection under section 103, see MPEP § 2113.

Claims 5-8 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Kurihara et al. (U.S. Patent Application Publication # 2002/0192488 A1).

The examiner is only interested in finding the claimed final structure I the claimed invention.

As to the grounds of rejection under section 103, see MPEP § 2113.

Response

Applicant's arguments filed 10/3/05 have been fully considered, but are moot in view of the new grounds of rejections detailed above.

The listed references are cited as of interest to this application, but not applied at this time.

Field of Search	Date
U.S. Class and subclass: 257/787,676,783,666,685,686,777,702,703,705,773,723,5 28,	1/9/05 6/23/05 7/11/06
533,712,713,717,720,675,724,725,728,666,e23.036,e23.0 51, e23.066,e25.031,ed23.043,e23.052,e23.092 361/705,719,704,748	
Other Documentation: foreign patents and literature in 257/787,676,783,666,685,686,777,702,703,705,773,723,5 28,	1/9/05 6/23/05 7/11/06

533,712,713,717,720,675,724,725,728,666,e23.036,e23.0 51,e23.066,e25.031,ed23.043,e23.052,e23.092 361/705,719,704,748	
Electronic data base(s):	1/9/05
U.S. Patents EAST	6/23/05
	7/11/06

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander O Williams whose telephone number is (571) 272 1924. The examiner can normally be reached on M-F 6:30-7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272 1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alexander O Williams
Primary Examiner
Art Unit 2826